

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the above-referenced application.

Listing of Claims:

1. (Currently Amended) A transmission imager having a radiation source (2) for radiating radioactive rays from its target-(2a), a radiation detector, and a specimen table-(5) provided between the target-(2a) and the radiation detector for having a specimen to be examined placed thereon, the radiation detector arranged with its detecting surface at the center-(P) extending substantially at a right angle to a reference axis-(L1, L2) which extends from the center [[P]] to the target-(2a), characterized in that

the radiation detector is a combination of two, first and second, radiation detectors-(3, 4), the first radiation detector-(3) arranged to be moved to and from the target-(2a) by the action of a driving mechanism-(6) and thus positioned further from the target-(2a) than the second radiation detector-(4), and

the radiation source-(2) is specifically arranged in relation to the two, first and second, radiation detectors-(3, 4) so that its target-(2a) comes at an angle to face a cathode-(2b) which is disposed closer to the second radiation detector-(4).

2. (Currently Amended) A transmission imager according to claim 1, wherein the the radiation source-(2) is specifically arranged in relation to the two, first and second, radiation detectors-(3, 4) so that its maximum output axis-(M) runs along the first one-(L1) of two reference axes-(L1, L2) extending from the first radiation detector-(3) or between the first reference axis-(L1) and the other or second reference axis (L2) extending from the second radiation detector-(4).

3. (Currently Amended) A transmission imager according to claim 1 ~~or 2~~, wherein the second radiation detector-(4) is a flat panel detector.

4. (Currently Amended) A transmission imager according to ~~any of claims 1 to 3~~ claim 1, wherein the first radiation detector-(3) is an image intensifier-(H).

5. (New) A transmission imager according to claim 2, wherein the second radiation detector is a flat panel detector.

6. (New) A transmission imager according to claim 2, wherein the first radiation detector is an image intensifier.

7. (New) A transmission imager according to claim 3, wherein the first radiation detector is an image intensifier.

8. (New) A transmission imager according to claim 4, wherein the first radiation detector is an image intensifier.

9. (New) A transmission imager according to claim 5, wherein the first radiation detector is an image intensifier.